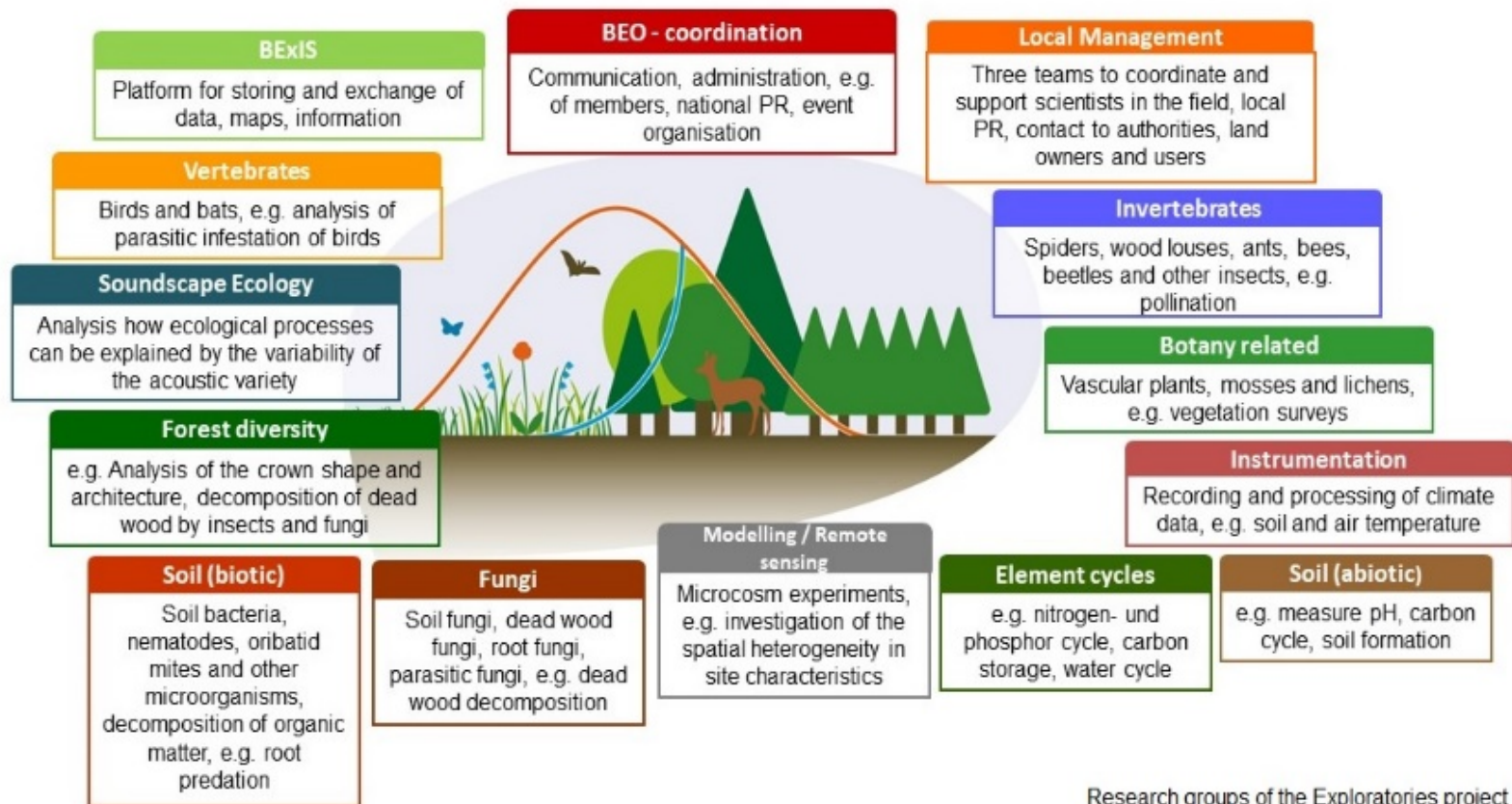


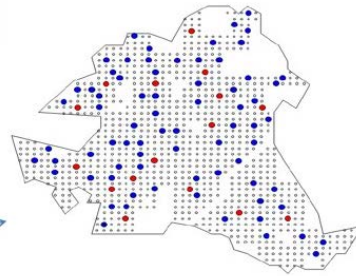
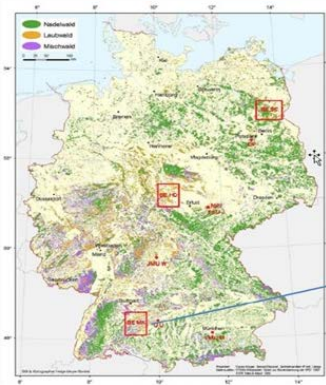
Enhance BEXIS2: from pure data management to an information system

Andreas Ostrowski, Cornelia Fürstenau, Eleonora Petzold, Franziska Zander,
Birgitta König-Ries

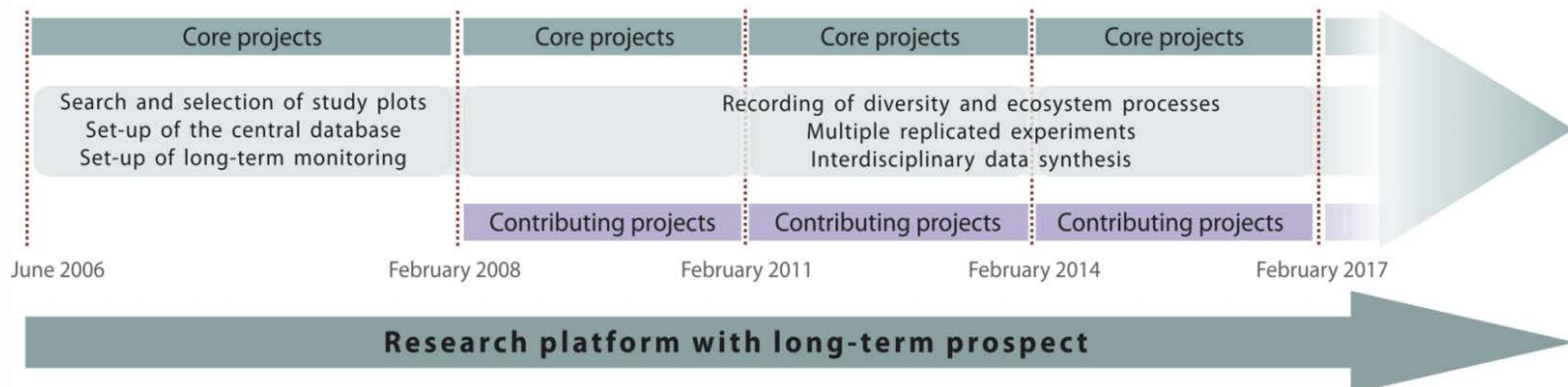
DFG priority programme (Schwerpunktprogramm):
Exploratories for large-scale and long-term functional biodiversity research
= open research platform for functional biodiversity



DFG priority programme (Schwerpunktprogramm):
Exploratories for large-scale and long-term functional biodiversity research
= open research platform for functional biodiversity



300 field plots in 3 areas in Germany
44 projects (current phase)
285 project members (ditto)



Crucial for success of project:

- interchange of data among projects
- integrative data analyses and data re-use

= need for **central data repository**

BUT since project start also non-data demands

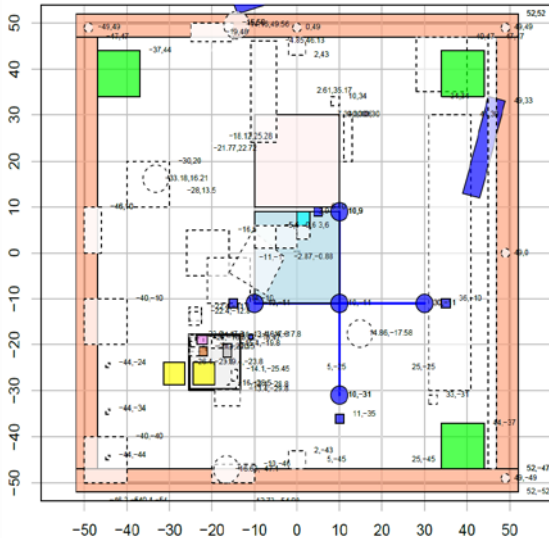
= additional functionalities to support project

Philosophy from the beginning:

= provision of non-data features to **enhance acceptance** of the system + data management

Fieldwork support

- Plotcharts**
- All 300 plots as map
 - All with up-to-date subplots
 - Full subplot history available



Plot Information

- Basic Information dataset
- GPX, KML datasets
- Inventory datasets
- Land use information datasets
- Climate data

Field Information

HAINICH

03.04.2018 Frederic Van Breec
Hainich, From 05.04.2018 To 24.12.2018
-According to an agreement with the landowner and hunter, it is not allowed to bring any dog/pet to the plots in Oppershausen (HEW 7, 9, 29, 30, 48).
-Between 1.4. & 15.7 (breeding season), it is not desired to bring dogs in the forest.
-The use of a leash should be naturally and in your own interest, but bringing dogs to fieldwork should be avoided if possible. In any case contact LMT before bringing any pet to the HAI.
-Entsprechend einer Übereinstimmung mit Landnutzern & Jägern, ist es gänzlich nicht erlaubt Hunde/Häustiere auf die Plots in Oppershausen zu nehmen.
-Zwischen 1.4. & 15.7 (Brut- und Setzzeit) ist es auch auf allen anderen Waldgeb

Further features

Event Registration

```

10  http://creativecommons.org/licenses/by-nc-sa/3.0/de/deed.en
11
12  Developed by the Central Data Management of Biodiversity Exploratories
13  http://www.biodiversity-exploratories.de/
14
15  -->
16
17  <xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
18    targetNamespace="http://www.bgc-jena.mpg.de"
19    xmlns:bcg="http://www.bgc-jena.mpg.de"
20    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
21    xmlns="http://www.bgc-jena.mpg.de" elementFormDefault="qualified" xml:lang="en">
22    <!-- ===== -->
23    <xsd:element name="registration" type="registrationType">
24      <xsd:annotation>
25        <xsd:documentation>
26          This is the schema for registration tool (especially for workshops) of the BEO of
27          exploratories / functional biodiversity. --YJ 20101105--
28        </xsd:documentation>
29      </xsd:annotation>
30    </xsd:element>
31
32    <xsd:complexType name="registrationType">
33      <xsd:sequence>
34        <!--<xsd:element name="general" type="generalType" />-->
35        <xsd:element name="personalData" type="personalDataType" />
36        <xsd:element name="travel" type="travelType" />
37        <xsd:element name="meals" type="mealsType" />
38        <!--<xsd:element name="participation" type="bcg:participationType"/></xsd:element-->
39        <xsd:element name="lodging" type="lodgingType"/></xsd:element>
40        <xsd:element name="childcare" type="childcareType" />
41        <xsd:element name="additionalInformation" type="additionalInformationType" />
42      </xsd:sequence>
43    </xsd:complexType>
44

```

Exploratorien für funktionelle Biodiversitätsforschung

REGISTRATION FOR THE WORKSHOP "SCIENTIFIC WRITING" I AND II IN NOVEMBER 2018 BY MARKUS FISCHER

Part I: 15.11. 9:00 - 16.11. 14:00 in Bern:

Part II: 29.11. 11:00 - 30.11. 16:00 in Frankfurt:

Registration until 30.09.2018:

Personal data:

First name:

Last name:

E-Mail:

Position:

University/Project:

Please choose a password for your registration to be able to edit it later:

Part I: from 15.11.2018 9:00 - 16.11.2018 14:00 in Bern:

Travel and lodging Information:

Arrival day:

Departure day:

Accommodation if needed will be in double rooms

Optional entry of a room partner:

I need child care:

Please provide the age of the child and more info you would like us to know:

Part II: from 29.11.2018 11:00 - 30.11.2018 16:00 in Frankfurt:

Travel and lodging Information:

Arrival day:

Departure day:

Accommodation if needed will be in double rooms

Optional entry of a room partner:

I need child care:

Please provide the age of the child and more info you would like us to know:

Food preferences:

Food preferences:

Food intolerances:

Information:

You can change your registration before 30th of September 2018. Afterwards your registration is binding. BEO will not pay any cancellation fees. If any inevitable changes occur after the registration is closed, please communicate directly with BEO (beo@senckenberg.de).

I understand and accept the rules: ☐


Information:

You will receive a confirmation e-mail from BExIS right after successful registration. A missing e-mail may indicate an unfinished registration. Please contact BEO in case of doubt.

I understood that, too: ☐

Further features

Self Management of Documents



Session timeout: 199 min(s) | Username: | [Account](#) | [Abmelden](#)

BIODIVERSITY EXPLORATORIES INFORMATION SYSTEM

[Home](#) | [BEO Information](#) | [Fieldwork](#) | [Plot Information](#) | [Data](#) | [Upload](#) | [Statistics](#) | [Landuse](#) | [Publication list](#) | [Event Registration](#) | [Public Data](#) | [Stakeholder questions](#) | [Help](#)

[General Information](#) | [Photo Gallery](#) | [Templates](#) | [PR Material](#) | [Data-Use Agreement](#) | [Assembly files](#) | [Workshop files](#) | [Internal Documents](#) | [Protocols](#) | [Advisory Board](#)

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Maximum 32 MB

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- [BE Supervision Agreement July2011](#)
- [BExISAccess 042014](#)
- [Contact details of project management coordination 2018](#)
- [Contact details of project members september 2018](#)
- [Exploratories Terms Begriffe](#)
- [Faces of the project](#)
- [Newsletter 201712](#)
- [Rules and Guidelines for working with isopic labelling in the Biodiver](#)

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PRESENTATIONS 2018

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- [180220_00_Agenda](#)
- [180220_S01_00_SESSION 1 INFRASTRUCTURE](#)
- [180220_S01_01_Introduction](#)
- [180220_S01_02_BEO, Biodiversity Exploratories Office](#)
- [180220_S01_03_Local Management Teams](#)
- [180220_S01_04_Instrumentation and remote sensing](#)
- [180220_S01_05_BExIS](#)
- [180220_S01_06_LMT Introduction to stakeholder questionnaire](#)
- [180220_S02_00_SESSION 2 PLANTS](#)
- [180220_S02_01_Botany \(Core project\)](#)
- [180220_S02_02_SADE II](#)
- [180220_S02_03_TRATSCH](#)
- [180220_S02_04_BETOI](#)
- [180220_S02_05_EvoPlast](#)
- [180220_S02_06_ForAge](#)
- [180220_S02_07_LandUseFeedback](#)
- [180220_S02_08_PhenoDiv](#)
- [180220_S02_09_RootFun](#)
- [180220_S02_10_TRATSCH](#)
- [180220_S02_11_EpiDiv](#)
- [180220_S03_00_SESSION 3 ANIMALS](#)
- [180220_S03_01_Arthropods \(Core project\)](#)
- [180220_S03_02_FuncNet](#)
- [180220_S03_03_LitterLinks](#)
- [180220_S03_04_MicroBEEs](#)
- [180220_S03_05_JKI-GF](#)
- [180220_S04_00_SESSION 4 SYNTHESIS](#)

POSTERS 2018

UPLOAD FILE

Maximum 32 MB



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- [anthoDiv_Gaube_et_al](#)
- [AntiRes_Willms_et_al](#)
- [BE-CULT_Kolb_et_al](#)
- [BECycles_Leimer_Wilcke](#)
- [BetoI2_Kiene_et_al](#)
- [BExIS_Bohn_et_al_Lifecycle](#)
- [BExIS_Ostrowski_et_al_Overall](#)
- [BExIS-Ostrowski_et_al_Postit](#)
- [BLD-FFD-HZG_II_Zarkov_et_al](#)
- [Core_03_infrastructure_Woellauer_et_al](#)
- [Core_03_products_Magdon_et_al](#)
- [Core_06_Forest_Structure_Schall_Ammer](#)
- [Core_08_Goldmann_et_al](#)
- [Crustfunction II_Khanipour_Roshan](#)
- [CRUSTFUNCTION2_Albrecht_et_al](#)
- [DefenseII_Vikuk_et_al](#)
- [ECTOMYC_Khokon_et_al](#)
- [ECTOMYC_Nguyen_et_al](#)
- [Epidiv_Gaspar_et_al](#)
- [ESCAPE_II_Freitag_et_al](#)
- [EvoPlast_Kirschbaum_Scheepens](#)
- [FuncNet_Neff_et_al](#)
- [FunTrait_Hempel_et_al](#)
- [GFBio_Nieschulze](#)
- [Hedge2_Ratzbor_et_al](#)
- [JKI-GF_Imholt_et_al](#)
- [KiWion_Danzberger_et_al](#)
- [KnowledgeTransfer_Heinrichs_et_al](#)
- [KnowledgeTransfer_Mund_et_al](#)

Further features

Climate Data Integration

BIODIVERSITY EXPLORATORIES INFORMATION SYSTEM

[Home](#)
[Administration](#)
[BEO Information](#)
[Fieldwork](#)
[Plot Information](#)
[Data](#)
[Upload](#)
[Statistics](#)
[Landuse](#)
[Publication list](#)
[Event Registration](#)
[Public Data](#)
[Stakeholder questions](#)
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Session timeout: 199 min(s) | Username: aostrow | [Account](#)

[Your data](#)
[Climate data](#)
[Overview](#)
[Browse data](#)
[Metadata search](#)
[Advanced search](#)
[Visual metadata search](#)
[LandownerInfoTool](#)
[LUI Tool](#)
[WebGIS](#)

Project: Exploratories

[main-page](#)
[?](#)

Group

Plot AEG01 ...

Parameter Ta_200

Time

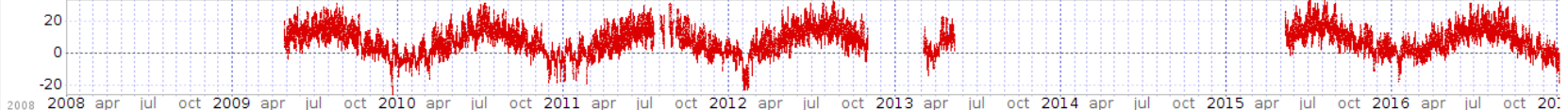
Resolution hours

Quality 1: physical


Interpolation no

View diagram

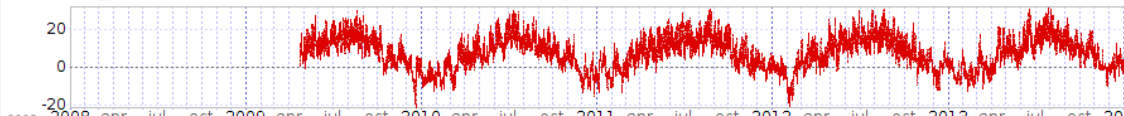
AEG01 / Ta_200 : Air temperature at 2 meters above ground -- °C (degree Celcius, -40 to 60)



AEG02 / Ta_200 : Air temperature at 2 meters above ground -- °C (degree Celcius, -40 to 60)



AEG03 / Ta_200 : Air temperature at 2 meters above ground -- °C (degree Celcius, -40 to 60)



Infobox

visualisation

export

map

status

source catalog

metadata

(obsolete) visualisation plot

(obsolete) visualise parameter

visualisation of climate data

download time series data

interactive map of plots

interactive detailed up-to-date status of plots

interactive catalog of imported data files

metadata of associated dataset

view parameters of one plot (station)



view one parameter of a group of plots

Infobox

Data Version 2018-08-20

Further features

LUI Calculation

BIODIVERSITY EXPLORATORIES INFORMATION SYSTEM

[Home](#)
[Administration](#)
[BEO Information](#)
[Fieldwork](#)
[Plot Information](#)
[Data](#)
[Upload](#)
[Statistics](#)
[Landuse](#)
[Publication list](#)
[Event Registration](#)
[Public Data](#)
[Stakeholder questions](#)
[Help](#)

[Your data](#)
[Climate data](#)
[Overview](#)
[Browse data](#)
[Metadata search](#)
[Advanced search](#)
[Visual metadata search](#)
[LandownerInfoTool](#)
[LUI Tool](#)
[WebGIS](#)

TOOL FOR EXTRACION AND/OR CALCULATION OF THE LAND USE INTENSITY

[HowTo as pdf](#)
[Workflow as pdf](#)

Please select if you want to extract the raw data (unstandardized) OR if you want to calculate the LUI (standardized).

☐ unstandardized
 ☒ standardized

Please select if you want to calculate a regional OR a global LUI .

☐ regional
 ☒ global

Please select two or all Exploratories. Calculation will use an overall average of the choosen Exploratories.

Select all

☒ ALB
 ☒ HAI
 ☐ SCH

Please select one or more years you want to calculate the LUI for.

Select all

☐ 2006
 ☐ 2007
 ☐ 2008
 ☐ 2009

☐ 2010
 ☐ 2011
 ☐ 2012
 ☐ 2013

☒ 2014
 ☒ 2015
 ☐ 2016

[Confirm selection](#)
[Edit selection](#)

Please select if you want to calculate a LUI for every selected year separately OR one LUI over all selected years.


☐ separately
 ☒ overall

Please select for which Plots the LUI will be calculated. Please be aware that standardization is always done over all EPs, not just the selected ones.

☒ VIPs
 ☐ MIPs
 ☐ EPs

[Calculate LUI](#)

[Export To Excel](#)



In order to export data you have to agree with the ["Data and publication policy of the Biodiversity Exploratories"](#).

[Export To Txt](#)



EP-Plotid	Std_procedure(year)	Std_procedure(exploratory)	G_std	M_std	F_std	LUI
AEG1	overall(2014, 2015)	global(ALB, HAI)	0	2,03	1,66	1,92
AEG2	overall(2014, 2015)	global(ALB, HAI)	0	2,44	9,35	3,43
AEG3	overall(2014, 2015)	global(ALB, HAI)	0,17	1,22	0	1,18
AEG4	overall(2014, 2015)	global(ALB, HAI)	1,27	0,81	0,73	1,68
AEG5	overall(2014, 2015)	global(ALB, HAI)	1,26	0,81	1,32	1,84
AEG6	overall(2014, 2015)	global(ALB, HAI)	2,76	0,81	1,03	2,14
AEG7	overall(2014, 2015)	global(ALB, HAI)	0,3	0	0	0,55
AEG8	overall(2014, 2015)	global(ALB, HAI)	0,64	0,81	0	1,21
AEG9	overall(2014, 2015)	global(ALB, HAI)	0,95	0	0	0,97
HEG1	overall(2014, 2015)	global(ALB, HAI)	0,54	2,03	3,69	2,5
HEG2	overall(2014, 2015)	global(ALB, HAI)	0,17	1,22	1,53	1,71
HEG3	overall(2014, 2015)	global(ALB, HAI)	0,28	2,44	3,38	2,47
HEG4	overall(2014, 2015)	global(ALB, HAI)	0	2,03	5,62	2,77
HEG5	overall(2014, 2015)	global(ALB, HAI)	1,59	1,63	2,78	2,45
HEG6	overall(2014, 2015)	global(ALB, HAI)	0,87	1,63	0,89	1,84
HEG7	overall(2014, 2015)	global(ALB, HAI)	2,3	0,41	0	1,64
HEG8	overall(2014, 2015)	global(ALB, HAI)	2,3	0,41	0	1,64
HEG9	overall(2014, 2015)	global(ALB, HAI)	1,12	0	0	1,06

Photo Gallery

[illegible]

Further features

Question-Answer System

BIODIVERSITY EXPLORATORIES INFORMATION SYSTEM

[Home](#)
[Administration](#)
[BEO Information](#)
[Fieldwork](#)
[Plot Information](#)
[Data](#)
[Upload](#)
[Statistics](#)
[Landuse](#)
[Publication list](#)
[Event Registration](#)
[Public Data](#)
[Stakeholder questions](#)
[Help](#)

[Allgemeine Fragen](#)
[Grünlandfragen](#)
[Waldfragen](#)
[Behördenfragen](#)

[Boden](#)
[Ökonomische Relevanz](#)
[Praktische Maßnahmen](#)
[Störungen](#)
[Wissensaustausch](#)
[Konkrete Ergebnisse](#)

1. Mit welcher...

2. Unterschei...

3. Wie wirken Kronendachlücken auf die Biodiversität aus? Welchen Einfluss haben dabei die Größe der Lücken sowie der Wechsel zwischen Öffnung und Schließung des Kronendaches? 2 Antworten

4. Hat die Be...

5. Welche Be...

6. Ist der Ver... kritisch zu...

7. Wie wirkt s...

3. Wie wirken sich durch die Bewirtschaftung hervorgerufene Kronendachlücken auf die Biodiversität aus? Welchen Einfluss haben dabei die Größe der Lücken sowie der Wechsel zwischen Öffnung und Schließung des Kronendaches? 2 Antworten

Wolfgang Weisser 21.02.2018

Kronendachlücken erlauben es licht- und wärmeliebenden Arten, sich anzusiedeln, im Buchenwald sind solche Lücken sonst sehr selten.

Wolfgang, sorry, letzteres stimmt so nicht!

Unter den Buchenwaldbewohnern gibt es sehr viele lichtliebende Arten; In natürlichen Buchenwäldern kommt es durch Zusammenbrechen großer, alter Bäume regelmäßig zu Lücken im Kronendach. Oft reißt ein Baum noch 2-3 der umstehenden mit und dadurch können relativ große Lücken entstehen. Außerdem kommt es auch im Buchenwald regelmäßig zu Windwürfen, die einige ha groß sein können (Šamonil, et al (2009) For Ecol Manag). Licht im Buchenwald ist also von Natur aus nicht selten!

Wie groß eine Lücke mindestens sein muss, ist noch ungeklärt. Auf jeden Fall groß genug, dass die Nachbarbäume sie nicht einfach wieder schließen können.

Wichtig ist das Nebeneinander von Licht und Schatten, da die meisten Arten nur in entweder oder vorkommen. Als Ergebnis der Bewirtschaftung sind Wälder in Deutschland mittel dunkel bis dunkel. Also wäre punktuelle Auflichtung für Biodiversität förderlich (Seibold et al 2015 Cons Bio, Seibold et al 2016 J Appl Ecol). - Sebastian Seibold 26.02.2018

Kommentieren

Christian Ammer 04.03.2018

Sebastian Seibold hat vollkommen recht. Zur Urwalddynamik in Buchenwäldern gehören auch größere Störflächen (Nagel & Diaci 2006, Jaloviar et al. 2017). Die natürliche Lückengröße schwankt (in abnehmender Häufigkeit) zwischen 100 und 1000 m² (Hobi et al. 2015), größere Flächen durch Störungen sind seltener, kommen aber auch regelmäßig vor. Bestandeslücken sind, da sie für Heterogenität sorgen dh. in jedem Fall der Artenvielfalt dienlich. Auch hier hat Sebastian Seibold vollkommen recht.

Nagel, T. A., & Diaci, J. (2006). Intermediate wind disturbance in an old-growth beech-fir forest in southeastern Slovenia. Canadian Journal of Forest Research, 36(3), 629-638.

Jaloviar, P., Saniga, M., Kucbel, S., Pittner, J., Vencurik, J., & Dovciak, M. (2017). Seven decades of change in a European old-growth forest following a stand-replacing wind disturbance: A long-term case study. Forest Ecology and Management, 399, 197-205.

Hobi, M. L., Commarmot, B., & Bugmann, H. (2015). Pattern and process in the largest primeval beech forest of Europe (Ukrainian Carpathians). Journal of vegetation science, 26(2), 323-336.

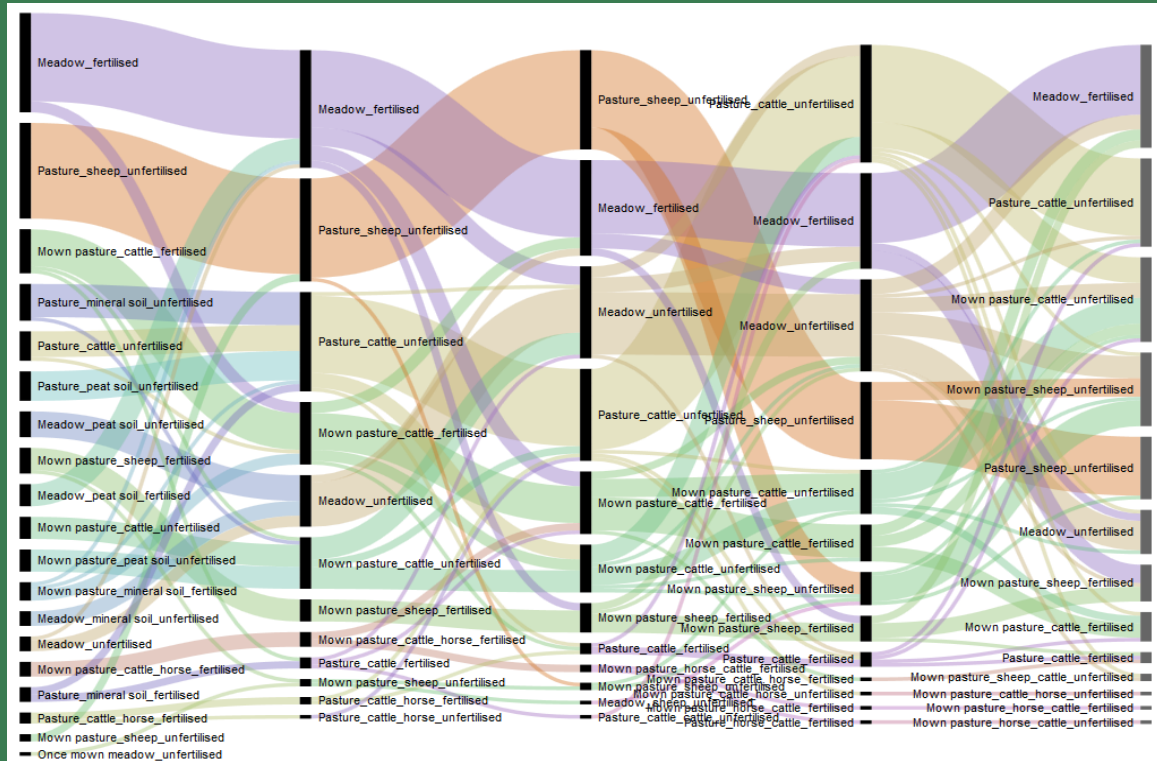
Kommentieren

Antwortvorschlag:

Senden

Further features

Data Visualization



Further features

Wikis



The screenshot shows the Biodiversity Exploratories Information System website. At the top, there is a logo for "biodiversity exploratories functional biodiversity research" and a graphic of a landscape with a tree, a path, and a bird. The main title "BIODIVERSITY EXPLORATORIES INFORMATION SYSTEM" is displayed in large green letters. Below the title, there are navigation links: "Home", "Event Registration", and "Public Data". A secondary navigation bar includes "Account", "Sitemap", "Imprint|Disclaimer", and "Help". A "Log In" section contains fields for "User Name:" and "Password:", a "Log In" button, and links for "Create new account", "Forgot your password?", and "Login problems?". At the bottom, there are four image-based links: "Go to Hainich Wiki" (with a collage of nature photos), "Go to Alb Wiki" (with a landscape photo), "Go to measuring Wiki" (with a photo of a cow), and "Go to visualization tool" (with a collage of data visualizations).

biodiversity exploratories
functional biodiversity research

**BIODIVERSITY EXPLORATORIES
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[Home](#) [Event Registration](#) [Public Data](#)

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Log In

User Name:

Password:

[Log In](#)

[Create new account](#)

[Forgot your password?](#)

[Login problems?](#)

[Go to Hainich Wiki](#)

[Go to Alb Wiki](#)

[Go to measuring Wiki](#)

[Go to visualization tool](#)

Further features

Publication List + Synthesis Proposal Overview

List of Publications Add Edit Synthesis Proposal Overview


VIEW OPTION

☒ Overview
 ☐ Citation
 ☐ German Overview

CRITERIA

- Project
- Year
- Status
- Type of Pubs
 - book section (4)
 - conference proceedings (8)
 - german article (24)
 - paper (428)
 - technical report (5)
 - thesis (249)
- OpenAccess
- Grassland
- Forest
- Plotlevel
- ALB
- SCH
- HAI
- Aboveground
- Belowground
- Field
- Laboratory
- Review
- Infrastructures
- BioticDataTaxa
- BioticDataTypes
- EnvironmentalDescriptors
- ProcessesServices

Page size: Sort expression: Sort direction:

	ID	Projectname	Title	First Author(s)	Year	Status	Type	Url	PDF
Show Details	8041	Soil (abiotic)	Kohlenstoff-Stickstoff-Interaktion in der Rhizosphäre nach Zugabe von Glukose und Ammoniumnitrat	Knolle F.	2017	published	thesis		
Show Details	8021	BETol II	Comparative drought resistance of temperate grassland species: evaluation of performance trade-offs and the relation to species distribution across moisture gradients	Jung E.-Y.	2018	submitted	paper		
Show Details	8001	EnDeco	Linking processes to community functions – Insights into litter decomposition combining fungal metatranscriptomics and environmental NMR profiling	Guerres M. A.					
Show Details	7982	SHAPE; Forest structure	Effect of tree species mixing on stand structural complexity	Juchhe J.					
Show Details	7981	NecroPig	Variation in sex pheromone communication in the burying beetle Nicrophorus vespilloides	Chemn J.					

List of Publications Add Edit Synthesis Proposal Overview

Synthesis Proposal Overview based on dataset with ID 22206 and uploaded files.

Number	Date	Authors	Title	Status	Proposal	Papers
000a	27.02.2013	Birkhofer	Land-use type, region and diversity determine the functional distinctness of below- and aboveground communities in grasslands and forests along a productivity gradient	published	◦ Birkhofer_20130227_Traits	5182 MD, 5182 File
000b	12.12.2013	Birkhofer	A multi-species approach to identify indicators of high and low land-use intensity	ongoing	◦ Birkhofer_20131212_Indicators	
000c		Gossner, Allan	Drivers of spatial beta-diversity pattern in different organisms	Split in 2. 1 is published, 2 is ongoing	◦ Gossner_Allan	4621 MD, 4621 File
000d		Perovic et al	Landscape effects on functional composition of arthropod communities	Split in two. Both published	◦ Perovic	3261 MD, 3261 File, 3601 MD, 3601 File
001	07.04.2014	Blöthgen	Gambling away the portfolio effect? Does land-use intensity synchronise population dynamics beyond diversity losses?	published	◦ Blöthgen	4121 MD, 4121 File
002	08.04.2014	Hersacher, Weisser	Land-use effects on species-abundance distributions in grasslands	published	◦ Hersacher_Weisser	3142 MD, 3142 File
003	15.04.2014	Dormann, Allan	Using hierarchical random graphs to identify functional communities in forest and grassland ecosystems	abandoned	◦ Dormann_Allan	
004	22.04.2014	Klaus	Positive effects of plant diversity on the drought stress of grassland plants	published	◦ Klaus	4741 MD, 4741 File
			Mission accomplished? Do agric-			

The image displays a collage of 12 screenshots from the Biodiversity Exploratories Information System (BEIS) website, organized into six pairs. Each pair is highlighted with a green border and a green title bar. The pairs are:

- Event Registration**: Two screenshots showing the registration process, including a list of events and a registration form.
- Wikis**: Two screenshots showing the Biodiversity Exploratories Information System interface, including a login page and a list of wikis.
- Question Answer System**: Two screenshots showing the Question Answer System interface, including a list of questions and answers.
- Self Management of Documents**: Two screenshots showing the Self Management of Documents interface, including a list of documents and a document management form.
- LUI Calculation**: Two screenshots showing the LUI Calculation interface, including a list of calculation results and a calculation form.
- Photo Gallery**: Two screenshots showing the Photo Gallery interface, including a grid of photos and a photo management form.
- Climate Data Integration**: Two screenshots showing the Climate Data Integration interface, including a list of climate data and a climate data management form.
- Data Visualization**: Two screenshots showing the Data Visualization interface, including a list of data visualizations and a data visualization management form.
- LUI Calculation**: Two screenshots showing the LUI Calculation interface, including a list of calculation results and a calculation form.

To have a system to manage NOT data ONLY.

BEXIS – Server and Team

Management of Data

Project internal datasets

- Described with rich metadata
- Well structured data format
- Upload, update, download
- Search, query, filter
- Analyze, Visualize
- Versioning
- Quality mechanism and control

Public available datasets

- Search, filter, download datasets
- Publish via GBIF as registered publisher
- Submit data to local authorities
- Open access regulations in data policy

Provision of Resources and Features

Fieldwork

- Booking system with calendar
- Interactive maps with all subplots
- Black board
- Direction maps

Project support

- Publication List
- Event registration tool
- Synthesis proposal overview
- Question-Answer system
- Document provision system
- Land-Use-Intensity calculation tool

Helpdesk/Support

BEXIS usage

- Personal communication regarding all resources and features
- Offering workshops and manuals
- Requirement collection

Data handling

- For the whole data life cycle regarding BEXIS and beyond
- Data mobilization
- Data processing and aggregation

Server management and maintenance

- Hardware maintenance + upgrading
- Software maintenance
- Application development + bug fixing

Feature status



Functionality migration:

- Refactored modules to follow module handler specs
- Refactored modules to integrate party package
- Refactored modules to use notification system
- Development in progress
- Development planned

Thanks!